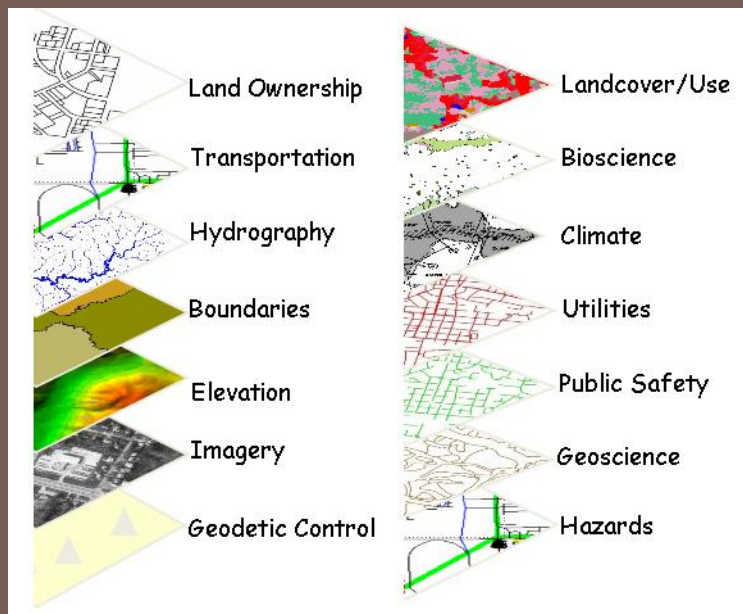


NEXT GENERATION E911 & THE IDAHO MAP

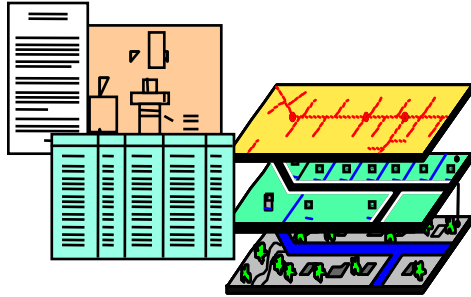


Emergency Communications Commission Meeting
September 24, 2009, Coeur d'Alene, Idaho

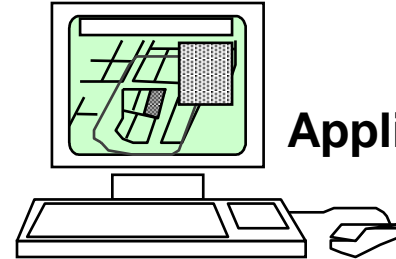
ISDI - The Idaho Map

- ❑ Idaho Spatial Data Infrastructure (see brochure)
- ❑ Statewide plan and actions to develop, maintain and make available base map data
- ❑ Other states doing similar planning and activities
- ❑ Supports National Spatial Data Infrastructure vision
- ❑ Collaborative, multi-organization effort: four phases over five years for initial build and stewardship implementation

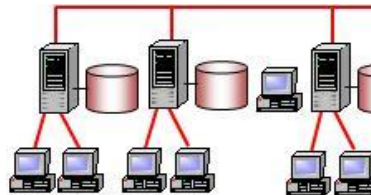
Components of Idaho's SDI



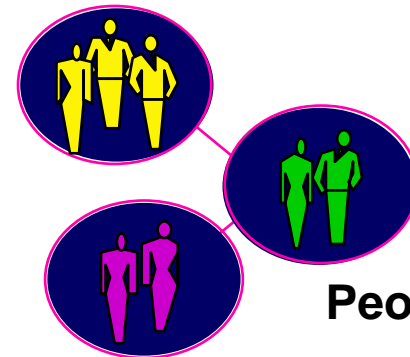
Geospatial Data



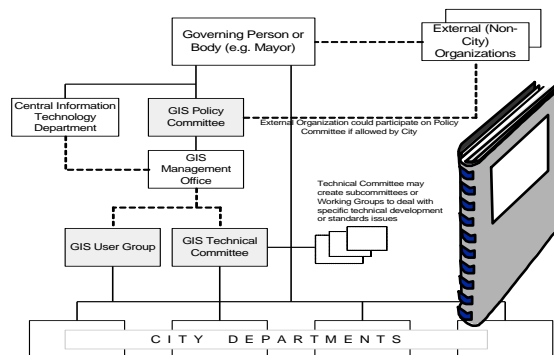
Applications



**Physical
Computer/Network
Infrastructure**

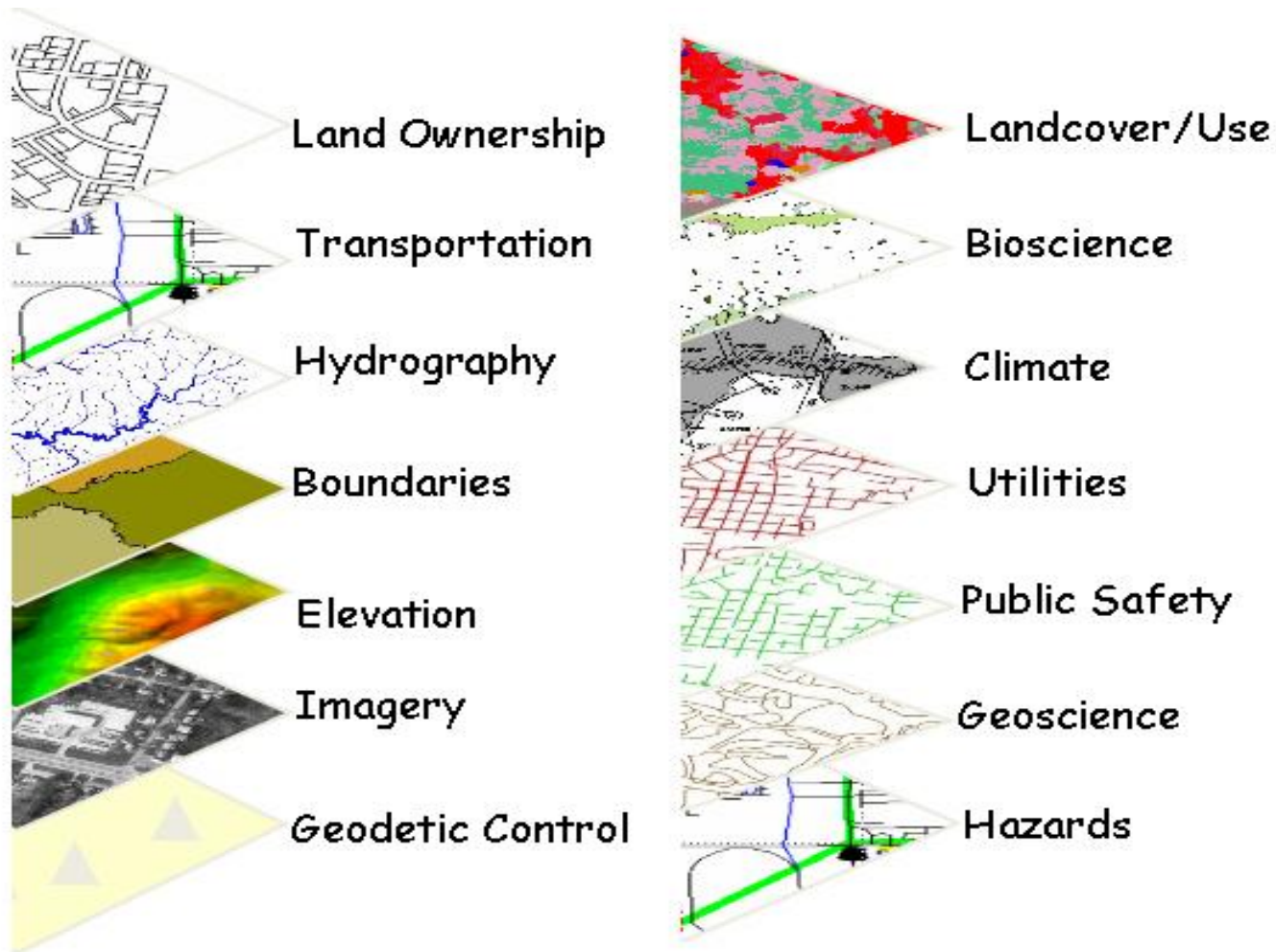


People



**Solid organizational structure,
policies, standards, and
management**

Framework – the Base Map Data



Public Safety Framework

- Structures (aka Address Points)
- Emergency Service Zones
- Critical Infrastructure

Also needed:

- Transportation (road centerlines, trails)
- Government Boundaries (city limits, counties)
- Cadastral (Parcels)
- Imagery (2009, et seq.)
- And more

Public Safety TWG

- Technical Working Groups are subcommittees of IGC
- Framework TWGs realize Framework themes
 - ▣ Plan and coordinate data development, including identifying stakeholders and developing standards
 - ▣ Plan and implement data stewardship design
- Bill Reynolds chairs Public Safety TWG
 - ▣ Structures Workgroup led by Eric Smith, Teton County
 - ▣ ESZ Workgroup led by Jimae Haynes, City of Boise
 - ▣ Critical Infrastructure led by Julie Sendra, BHS

Geospatial Resources

- Idaho Geospatial Office
 - ▣ Coordination and Program Management
 - ▣ Technical consulting
 - ▣ <http://gis.idaho.gov>
- INSIDE Idaho, our spatial data portal
 - ▣ <http://insideidaho.org>
 - ▣ Metadata, data download, Web services
- Idaho Geospatial Committee
- *Coming soon:* Regional Resource Centers

USING GIS TO IMPLEMENT E911 & W911



Emergency Communications Commission Meeting
September 24, 2009, Coeur d'Alene, Idaho

Background



- 2000 – 2002 Rural Addressing
- May 2003 – Enhanced 911 implemented
- NPC Emergency Communications Board
- 2003 – 2005 – Wireless 911 implemented
- 2007-2009 – Radio Interoperability
- 2009 upgrade to VOIP phone system



911 System for Nez Perce County



Lewiston /
Nez Perce Co
Public Safety
Answering Point
PSAP

Lewiston Dispatch: LPD, LFD, LEMS

NPC Dispatch: NPC Sheriff, NPCFD,
NPTPD, Culdesac QRU, Lapwai QRU,
Lapwai FD, Culdesac FD, Big Canyon FD

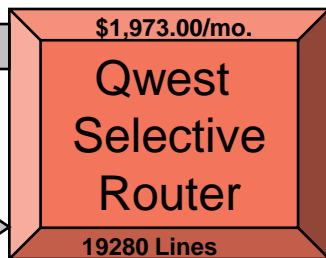
Nine One One Inc, Spillman Inc, Computers,
Servers, Routers, Telephones, Cables, Dis-
patch Equipment, Radio software and hard-
ware, GIS / GPS software and hardware,
Addressing, Mapping, Equipment Insurance,
Training, Consultants, Generators, EOC /
Dispatch Maintenance, 1% to State of Idaho
E911Commission

\$8590.00/mo. + Non-recurring budget items

2 Dedicated
Wireless Trunks
2 Backup Trunks

2 Dedicated
Landline Trunks

\$54.00/mo.
\$445.00/mo



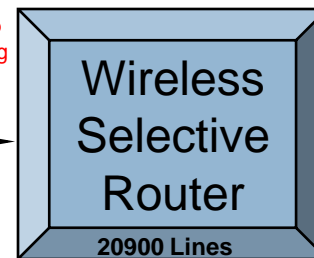
Cell Phone Info
to Qwest Router

Qwest Charges a one-time setup
(non-recurring) fees and recurring
(monthly) fees for Wireless 911
Services

\$?

**Qwest Connection
\$886.57 + /mo.**

Re-bid ANI/ALI
Info / Call back



Intrado

Wireless carriers may recoup
cost recovery (non-recurring)
and service (monthly) fees

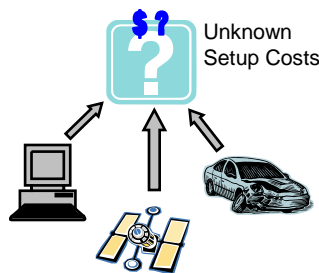


Verizon
218 Lines
\$329.20 /mo

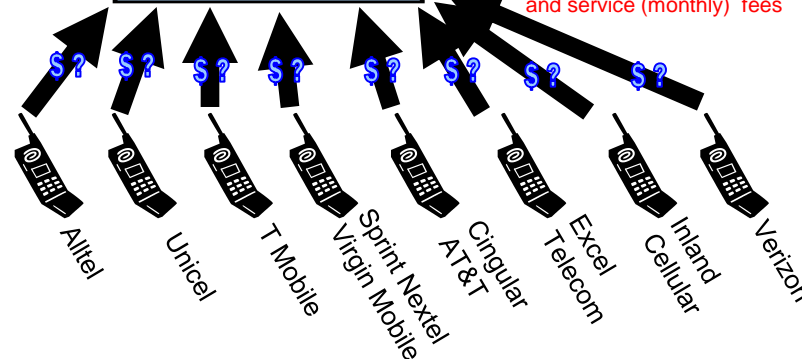
Inland
Telephone
357 Lines
\$505.60 /mo

TDS
205 Lines
\$101.84 /mo

XO & Others
3253 Lines
Qwest Provided



Satellite Phones (GlobalStar),
Automatic Vehicle Locator (AVL), Voice
Over internet Protocol (VOIP)
Vonage, HBF, TCS, Intrado, Wireless
Camera Phones



***** We are unable to disclose individual billing due to
confidentiality agreements between the wireless carriers and
the E911 Board which is required by FCC and Idaho Code**

What is a 911 Call?

A location based event:

- At an address, place, milepost, lat & long
- 1st Responders are routed from a location to that location
 - EMS & Fire from fixed locations
 - Police from fixed or transient locations
- What are the needs & resources?
- What is at that location?
- Who is being affected?
- How will dispatch interact
 - First Aid, Counselor, information gatherer
- Where will responders go upon completion

Solid Reliable maps are critical!

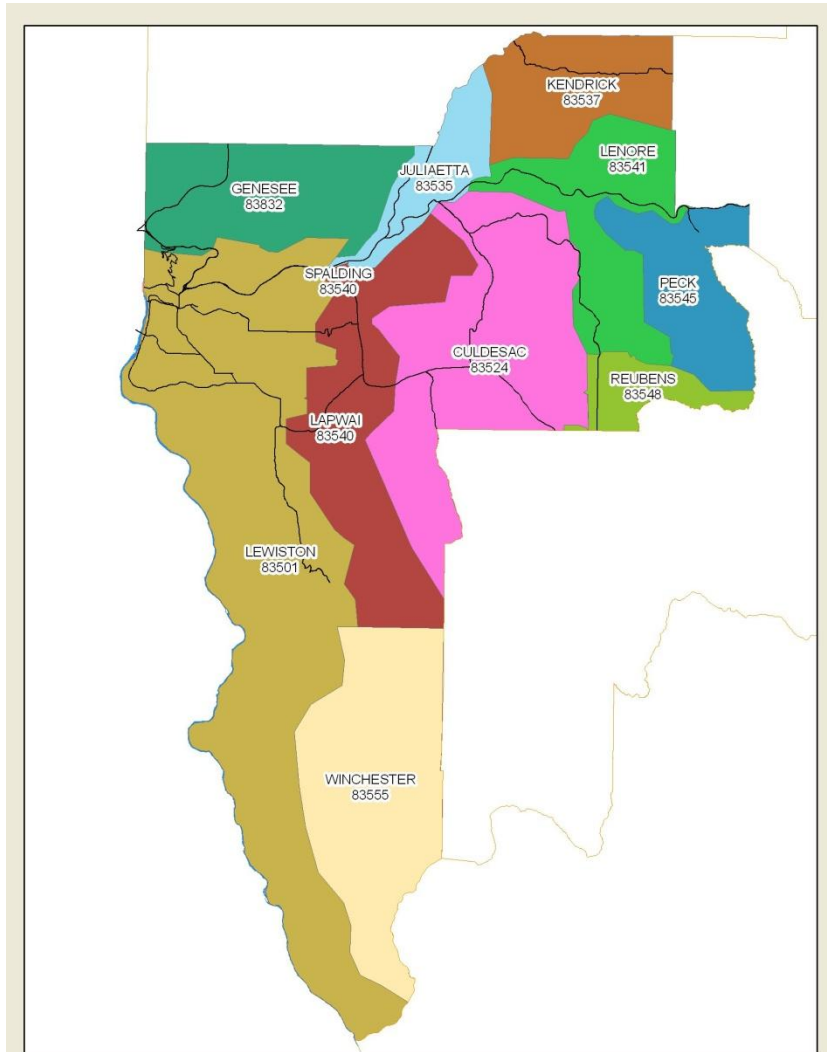
How will GIS help?



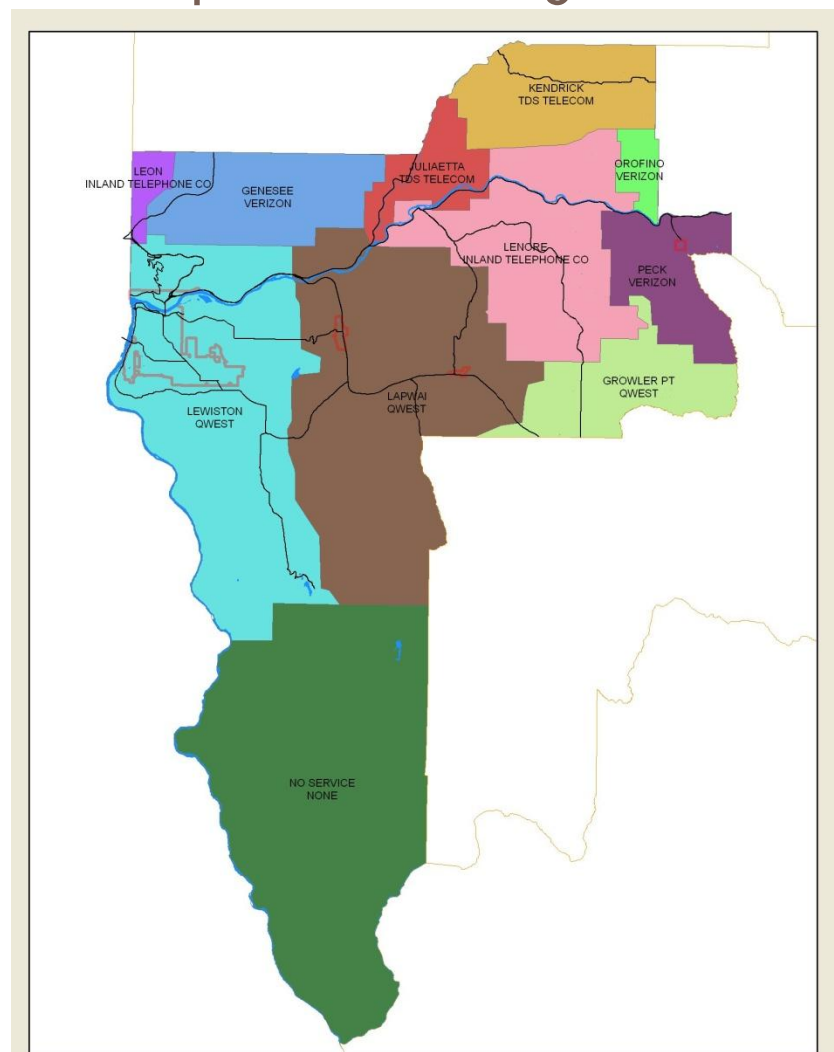
- ❑ Standards – address, mapping
- ❑ Updatable
- ❑ Instant reproduction
- ❑ Maintainable –
- ❑ Correct Information in real time

The Datasets

Postal Communities



Telephone Exchanges

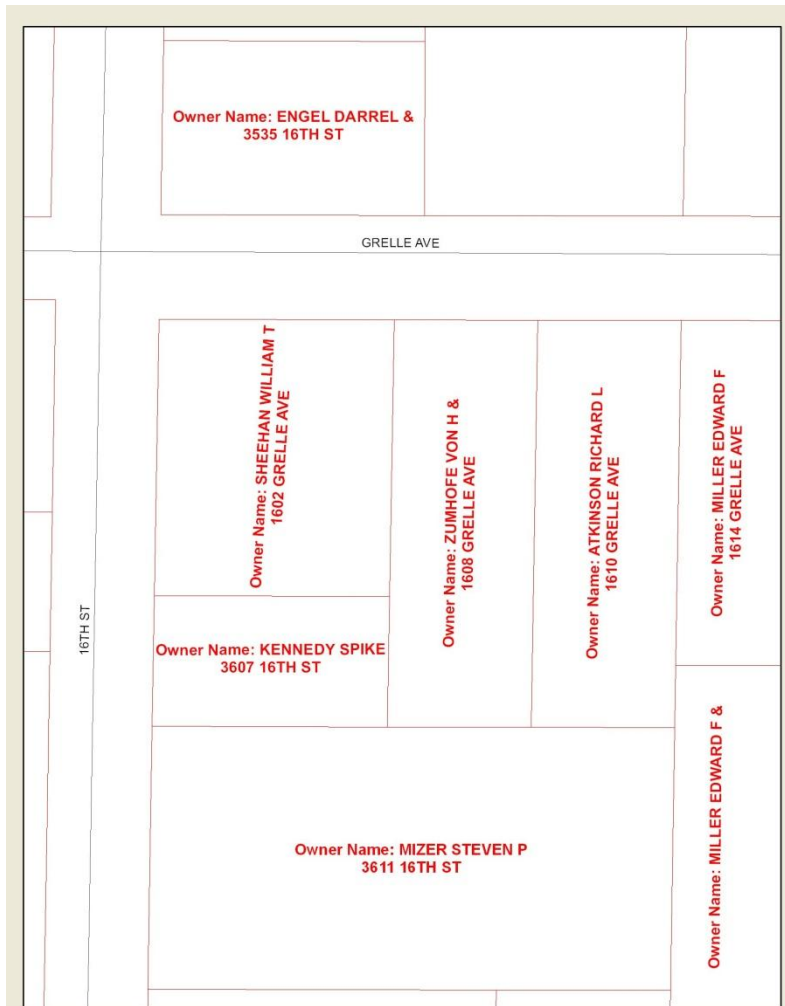


Structures / Addresses



The Datasets

Parcels



Aerial Imagery



The Breakdown

- GIS isn't required for E911 now (*but it sure makes it easier*)
 - ▣ Benefits
 - Accurate MSAG
 - Addresses- Standardize, Standardize, Standardize
 - Response
 - Education
 - Dispatchers, responders, search and rescue, public
 - Stewardship

Getting Over the Hump

- ❑ PSAPS are islands with islands of GIS data
- ❑ Seamless statewide data (Framework) is required for Next Gen services
- ❑ Policy and investment allow us to assume that bandwidth will be available
- ❑ Framework investment now will permit mature, fully stewarded data for Next Gen
- ❑ Help required for data and process transition zones

Actions



To make sure geospatial data supports your needs, get involved!

Contact Bill Reynolds to participate in the Public Safety Technical Working Group

BillReynolds@co.nezperce.id.us

Talk to your management or invite us to do so

Help the Commissioners understand the concept

Questions & Discussion

